

ABSTRACT OF THE DISCLOSURE

Audio signals are reproduced with consistent
5 perception of total harmonic distortion even with
varying spectral content of a particular audio signal
without separately limiting different frequency bands
within the audio signal. A distortion threshold
representative of an amount of distortion to be allowed
10 to be introduced by a power amplifier is determined in
response to a frequency content of the audio signal. A
distortion trigger compares a measured average
distortion signal and the distortion threshold and
reduces the controllable gain of the amplifier if the
15 average distortion signal exceeds the distortion
threshold.